Sodium Olefin Sulfonate

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Sodium Olefin Sulfonate
Company Address 1133 Walter Price Street Cayce, SC 29033
Emergency Telephone Number Infotrac 1-800-535-5053

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts</td>
<td>68439-57-6</td>
<td>36-42</td>
<td></td>
</tr>
<tr>
<td>Sodium chloride (NaCl)</td>
<td>7647-14-5</td>
<td>0-1</td>
<td></td>
</tr>
<tr>
<td>Sodium sulfate (solution)</td>
<td>7757-82-6</td>
<td>0-1</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>56-64</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview Irritant

Potential Health Effects

- **Eyes** Contact with eyes may cause irritation.
- **Skin** Substance may cause slight skin irritation.
- **Inhalation** May cause irritation of respiratory tract.
- **Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects No information available

4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Drink plenty of water. Do not induce vomiting without medical advice. Consult a physician.
5. FIRE-FIGHTING MEASURES

Flammable Properties Flammable
Products SPECIAL FIRE FIGHTING
PROCEDURES Method Suitable
Extinguishing Media Water mist may be used to cool closed containers. Water spray. Carbon dioxide (CO2). Foam.
Dry chemical.
Unusual Fire & Explosive Hazards None

6. ACCIDENTAL RELEASE MEASURES

Small Spillages
Large Spillages

Recover all usable material. Soak up balance with sand or dirt. Material is slippery on wet or hard surfaces.
In case of a large spill by truck, use small spill procedure and a vacuum truck. Call INFOTRAC at 1-800-535-5053.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing.
Storage Containers should be stored at temperatures between 50°F and 100°F.

8. EXPOSURE CONTROLS IPERSONAL PROTECTION

Engineering measures Ensure adequate ventilation, especially in confined areas.
Eye/Face Protection Tightly fitting safety goggles. If splashes are likely to occur, wear: Face-shield.
Skin Protection Wear protective gloves/clothing.
Respiratory Protection No special protective equipment required, unless workers are exposed to concentrations above the exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range 100 °C
Vapor Pressure Volatile 25 mm Hg @ 25°C
Weight % Water 56-64
Solubility Soluble in all proportions
Specific Gravity 1.05 7-9
pH Slight
Odor Appearance Yellow Amber
Physical State Liquid
10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal conditions.

Unsuitable Materials
Strong oxidizing agents.

Conditions to Avoid
Strong oxidizers.

Hazardous Decomposition Products
None under normal use

Hazardous Polymerization
No information available

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral (Rat)</th>
<th>LC50 Inhalation</th>
<th>LD50 Dermal (Rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonic acids, C14-16-alkane, hydroxy and C14-16-alkene, sodium salts</td>
<td>2310 mg/kg</td>
<td>6300 mg/kg</td>
<td></td>
</tr>
<tr>
<td>sodium sulfate (solution)</td>
<td>10000 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Eye Irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Skin Irritation</td>
</tr>
</tbody>
</table>

Ingestion
Unknown

Inhalation
Unknown

Chronic Toxicity
No information available

Carcinogenicity
Product is not listed.

Hazard Type
Skin/Eye Irritant.

12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae EC50</th>
<th>Freshwater Fish EC50</th>
<th>Microtox EC50</th>
<th>Water Flea EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium chloride</td>
<td>1000 mg/L 48 h</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium sulfate (solution)</td>
<td>2564 mg/L 48 h</td>
<td>4547 mg/L 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ecotoxicity effects
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Chemical Fate
Material is readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of contents/container in accordance with local regulation.
MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

15. REGULATORY INFORMATION

International Inventories

Component | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | CHINA | KECL | PICCS | AICS
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
Sulfonic acids, C14-16-alkane hydroxy | X | X | - | X | - | X | X | X | X | X
And C14-C16 alkene, sodium salts | X | X | - | X | - | X | X | X | X | X
Sodium chloride (NaCl) | X | X | - | X | - | X | X | X | X | X
Water | X | X | - | X | - | X | X | X | X | X
Sodium sulfate (solution) | X | X | - | X | - | X | X | X | X | X

USA

Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard | Yes
Chronic Health Hazard | No
Fire Hazard | No
Sudden Release of Pressure Hazard | No
Reactive Hazard | No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any HAPs.
16. OTHER INFORMATION

Revision Date 08/12/2009

Prepared by Donna M. Mellon

Disclaimer
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